CASIO

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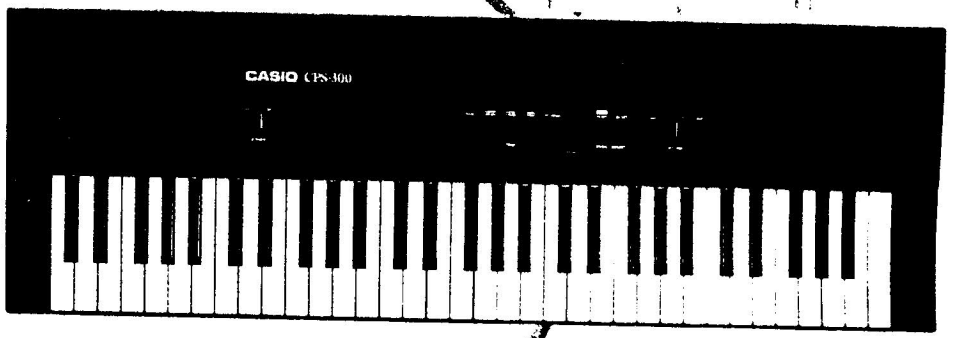
英西

Casio Piano Sound

CPS-300

ELECTRONIC MUSICAL INSTRUMENT
INSTRUMENTO MUSICAL ELECTRONICO



OPERATION MANUAL

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CASIO

CPS-300 ELECTRONIC MUSICAL INSTRUMENT

INTRODUCTION

Your new CASIO CPS-300 Electronic Keyboard is a state-of-art musical instrument which incorporates the latest electronics technology to make its operation as easy as possible.
Exceptional sound quality backed up by a host of sophisticated features and functions makes the CPS-300 a joy to play for everyone.
In order to enjoy the features and functions of the CPS-300 to their fullest, be sure to carefully read this manual and follow the instructions contained herein.

CONTENTS

2 MAIN FEATURES
3 GENERAL GUIDE
5 EXTERNAL CONNECTIONS
6 POWER SUPPLY
8 TONES
9 MUSIC LIBRARY
11 MIDI
13 TROUBLESHOOTING
14 CARE OF YOUR UNIT
15 SPECIFICATIONS

MAIN FEATURES

•Preset Tones

The CPS-300 lets you choose from 5 different built-in tones provided by an advanced PCM sound source using the latest in 12-bit sampling technology. Choose from Piano, Harpsichord, Vibraphone, Elec Piano and Pipe Organ tones — each is crystal clear and true to life.

•61-Key Keyboard With Touch Response

From the lightest pianissimo to the most thunderous fortissimo, the CPS-300's "Touch Response" keyboard responds to even the most subtle changes in keyboard dynamics. And a full 61 keys gives you expanded freedom of musical expression.

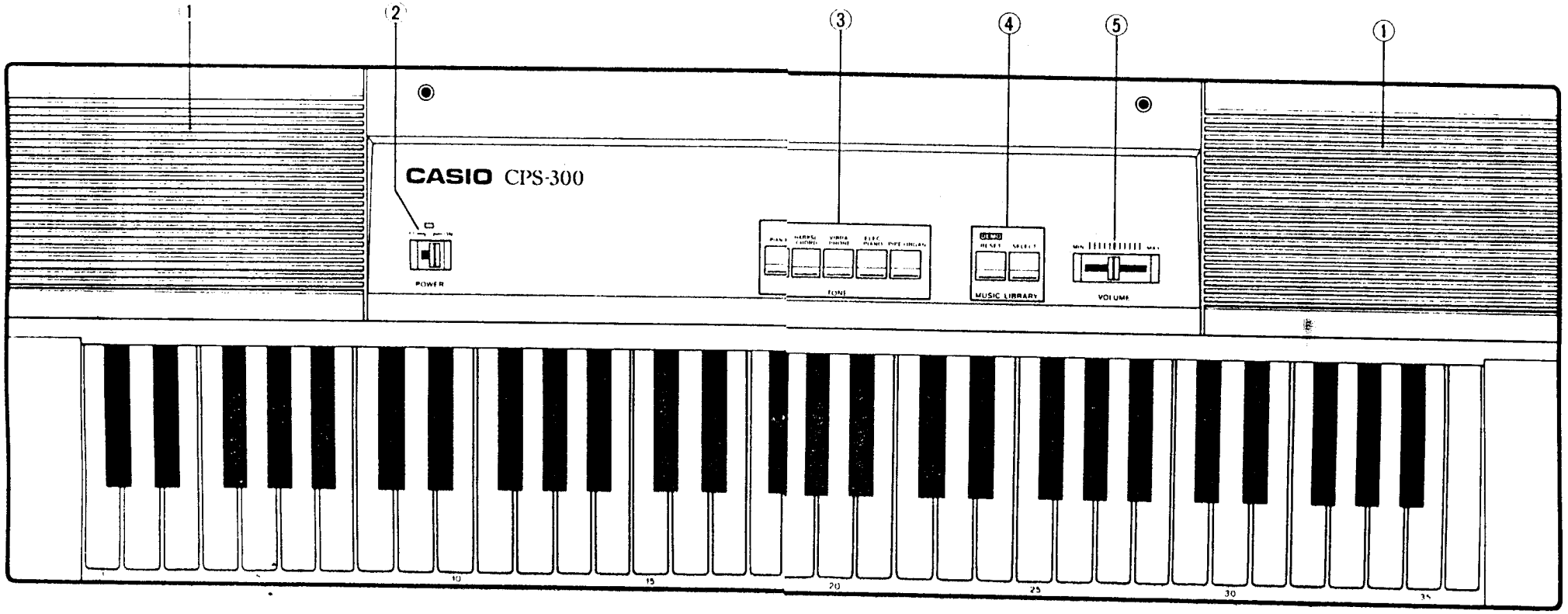
•36 Built-in Demonstration Tunes

Choose from an amazing total of 36 different auto-play demonstration tunes that showcase the amazing performance of the CPS-300. Choose from favorites by Beethoven, Bach, Chopin and other popular classical masters.

•MIDI Compatibility

The CPS-300 features MIDI — the Musical Instrument Digital Interface. This industry-standard interface lets you connect your keyboard with other MIDI instruments, sound sources and devices for synchronized performance.

GENERAL GUIDE



①Speakers (R/L)

②Power switch
Switchs unit ON and OFF. Indicator above switch lights when power is ON.

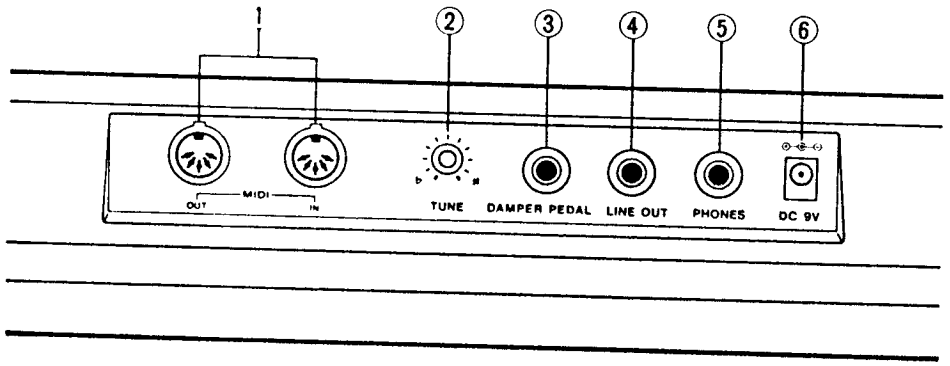
③Tone selectors
Used to select tones.

④Music library buttons
- The DEMO start / reset button can be used to start and stop playback of all built-in demonstration tunes.
- The MUSIC select button is used to select specific tunes for playback from the Music Library.

⑤Volume control
Controls overall output volume.

EXTERNAL CONNECTIONS

〈Rear Pannel〉



①MIDI terminals (IN/OUT)
For connection to other MIDI instruments and devices.

②Tuning control
Used to adjust the pitch of the entire keyboard within +/− 30 cents, allowing tuning to other instruments. The standard pitch at the center point is A4 = 442Hz.

③Pedal jack
For connection of optional sustain pedal (SP-10/SP-2). Allows control of sustain effect.

④Output jack
For connection to keyboard amplifiers, external speakers, audio equipment, etc.

⑤Headphone jack
For connection of optional headphones (CP-2). Output from the speakers is automatically cut when headphones are connected.

⑥AC adaptor jack
For connection of optional AC adaptor (AD-5).

POWER SUPPLY

This unit operates on both AC and DC power.

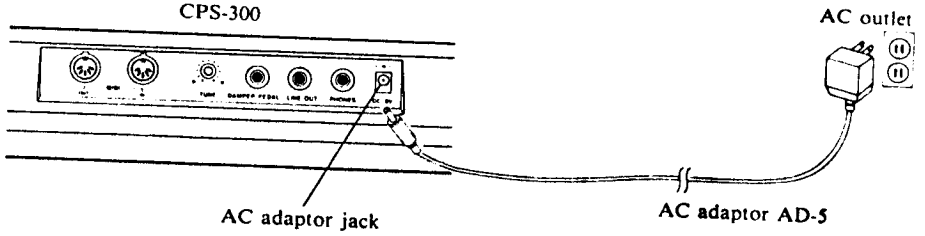
DC POWER

•Dry batteries
This unit can be powered by six D size (SUM-1/R20P) manganese dry batteries. Weakened batteries will result in lower volume or poor tonal quality. The power indicator lamp will gradually lose its brightness when battery power weakens. At this time, change batteries or shift to the alternate power source mentioned below.

Battery replacement:
1) Open the battery compartment cover on the bottom of the unit and take out used batteries.
2) Load new batteries taking care that polarity is correct.
   *It is advisable to replace all six batteries at the same time for longer battery life.
   *Standard battery life is approximately 8 hours.

AC POWER

An AC adaptor (AD-5, optional) is required to connect the CPS-300 to an AC outlet. Use only an adaptor with the same voltage rating (100, 117, 220, or 240) as the power supply in your area to prevent component damage. Plug the AC adaptor into the AC outlet and the cord into the unit. This will automatically cut off the battery power supply.



POWER SUPPLY

•Auto power off function
Power is automatically cut off approximately 6 minutes after the last operation of the unit. Power supply can be restored by switching power OFF and then ON again.

*The Auto Power OFF function is inoperative when playing back the demonstration tunes (power is not turned OFF, even through you don't touch the keyboard).

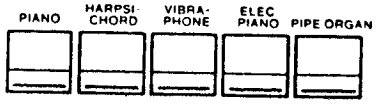
*To cancel the Auto Power OFF function, turn the power switch ON while holding down the HARPSICHORD tone selector. The unit will remain ON until you turn OFF manually.

CAUTION
*Use only genuine CASIO adaptors to avoid risk of damage.
*Remove batteries from the battery compartment when the unit is not used for extended periods. (Battery leakage can damage electrical parts.)
*The adaptor may become warm when left connected to an outlet. This is normal, but the adaptor should be disconnected when not in use.

***THE FOLLOWING CONDITIONS CAN CAUSE BATTERIES TO BURST:**
1. Use of adaptors other than genuine CASIO adaptors.
2. Loading batteries with polarities reversed.

TONES

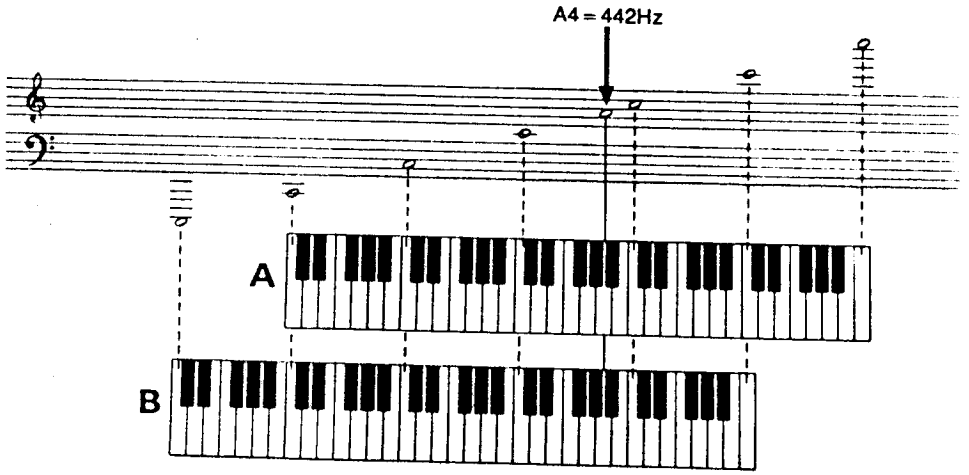
•Tone Selection
When you first switch the power ON, the PIANO tone will automatically be selected. To select another built-in keyboard tone, simply press one of the tone selectors.



TONE

*Piano, Vibraphone and Elec piano tones feature touch response, which provides control of volume and timbre according to initial touch pressure.
*All tones are clear and true-to-life thanks to a sound source system that is based on multiple samples of an instrument sound at various key attack levels.
*The keyboard can be used for 16-polyphonic performance.

•Pitch Range
The pitch range of each preset tone is as shown below.



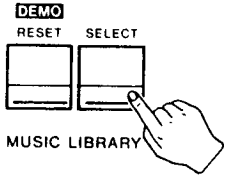
A: Piano, Harpsichord, Vibraphone, Elec Piano
B: Pipe Organ

MUSIC LIBRARY

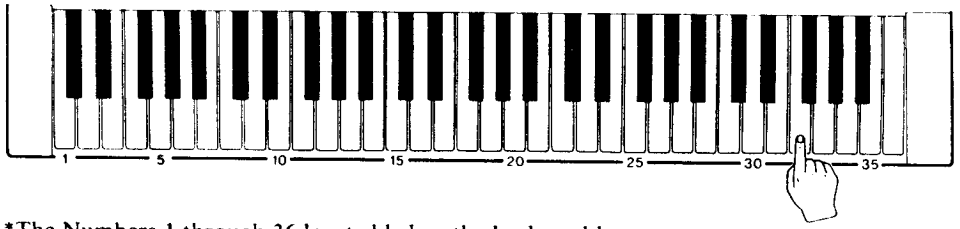
The CPS-300 features a 36-tune Music Library, offering a wide range of classical pieces, from etudes to sonatas.
For further details on Music Library contents, refer to "CPS Piano Scores" text.

•To Select a Music Library Tune

① Press the MUSIC select button.



② Select the desired tune by pressing the corresponding white key on the piano keyboard. As soon as you press the key, song playback begins.



*The Numbers 1 through 36 located below the keyboard keys correspond to tunes no. 1 through 36 (refer to "CPS Piano Score" text).

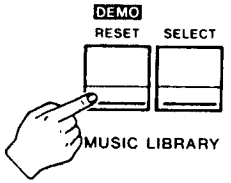
*If you press any of the black keys after the procedure ①, tune no. 1 is selected.

*The selected tune is played in an endless loop until you press the DEMO start/reset button.

*You can alter tones any time during playback, however each time the tune starts the tone will be reset to the piano tone.

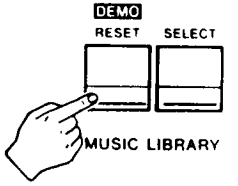
*If you want to change the tune during playback, press the MUSIC select button first and then press the corresponding white key on the keyboard. The tune changes as soon as you press the key.

③ Press the DEMO start/reset button to stop playback.



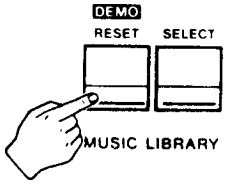
•To play all the Music Library Tunes

① Press the DEMO start/reset button. All 36 songs in the music library memory are played back in sequential order (no.1 through no.36).



*You can alter tones any time during playback, however each time the tune changes the tone will be reset to the piano tone.

② Press the DEMO start/reset button again to stop playback.



*The Auto Power OFF function is inoperative when playing back the demonstration tunes (power is not turned OFF, even though you don't touch the keyboard).

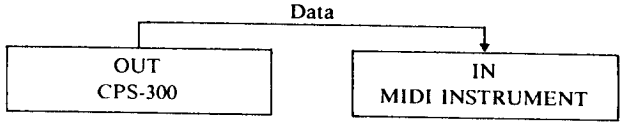
*Note that some notes in Music Library pieces may exceed the normal key range of this keyboard (C2 ~ C7).

MIDI

"MIDI" stands for "Musical Instrument Digital Interface." Practically speaking, it lets you connect the CPS-300 to other MIDI-equipped musical instruments and devices, such as synthesizers, drum machines, sequencers, and even personal computers.

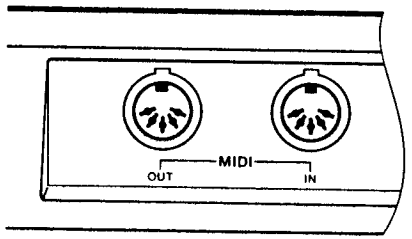
•Connection to Another MIDI Keyboard

By connecting the CPS-300 to another MIDI keyboard — such as the Casio VZ-1 — and setting both instruments to the same MIDI channel, you can use the CPS-300's keyboard to control voices created by external sound sources. The external MIDI instrument can also be used to control the CPS-300. Naturally, the sounds of both keyboards can also be played in ensemble as well.



•MIDI Terminal Functions

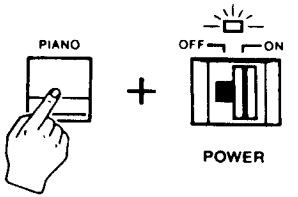
MIDI IN — Receives external MIDI messages
MIDI OUT — Sends CPS-300 MIDI messages



•To set the MIDI Basic Channel

①Switch the CPS-300 power OFF.

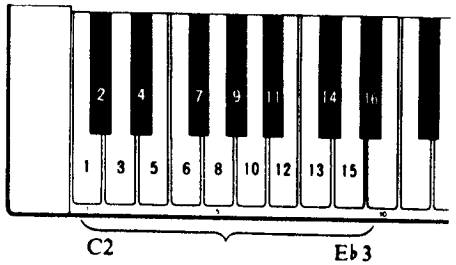
②Hold down the PIANO tone selector and turn the power back ON.



③While still holding down the PIANO tone selector, press the key on the keyboard which corresponds to the desired channel number. Channel numbers are assigned to keyboard keys as shown below.

CH	1	2	3	4	5	6	7	8
Keyboard	C2	C♯2	D2	E♭2	E2	F2	F♯2	G2

CH	9	10	11	12	13	14	15	16
Keyboard	A♭2	A2	B♭2	B2	C3	C♯3	D3	E♭3



*The MIDI Basic Channel is automatically set to "1" when the power is turned ON.
*To cancel the Auto Power OFF function in the MIDI mode, use the HARPSICHORD tone selector instead of the PIANO tone selector in procedure ②.
*Demonstration Tune performance data is not transmitted through MIDI.

TROUBLESHOOTING

*For any malfunction, always check battery condition first. (see page 6)

Trouble	Possible Cause	Remedy
No sound even if keys are pressed.	1. Volume control turned down. 2. Headphones connected. 3. Auto power off function has activated.	1. Adjust volume control. 2. Disconnect headphones. 3. Switch the power off and then on again.
Occasional interference	Refrigerators, washing machines and similar electric appliances.	Use outlet as far away as possible from appliance thought to be the cause.
No sound when connected to external amplifier.	1. Volume control turned down. 2. Defective connection cord.	1. Adjust volume control. 2. Replace connection cord.

CARE OF YOUR UNIT

1. Avoid heat, humidity, and direct sunlight.
Do not overexpose the unit to direct sunlight, place it near a heater, or in any area subject to high temperature.

2. Avoid severe impacts and do not drop.
Severe impacts can result in malfunction. When carrying or transporting the unit, protect the keyboard and buttons by packing with soft cloth.

3. Keep the unit free of liquids, dust, particles, etc.
Do not allow foreign matter to enter between the keys. Be especially careful of metallic objects such as hairpins, sewing needles or coins. Also, do not allow the unit to get wet.

4. Never attempt to modify any part of the unit.
Your keyboard is a precision musical instrument made up of sophisticated electronic parts. Any modification of, or tampering with internal components can cause trouble or malfunction.

5. Do not use lacquer thinner or similar chemicals for cleaning.
Clean the keyboard with a soft cloth dampened with a mild detergent solution and squeeze it until almost dry.

6. Remove batteries before extended storage.
Batteries left in the unit for long periods can leak and cause damage to electronic circuitry.

7. In case of malfunction...
Check whether buttons and connections are set correctly as indicated in this manual. If the unit still does not work properly, contact the original retailer or a nearby dealer. Never attempt to repair the unit yourself. This can result in serious damage of the components.

SPECIFICATIONS

Model:	CPS-300
Number of keys:	61 keys, initial touch
Polyphonic:	16-note polyphonic
Preset tones:	5; Piano, Harpsichord, Vibraphone, Elec Piano, Pipe Organ
Demonstration tunes:	36
Terminals:	Line out; Output impedance — 3kΩ Output voltage ——— 1V (RMS) MAX Headphone jack, Damper pedal jack, AC adaptor jack(DC 9V), MIDI (IN/OUT)
Tuning control:	A4 = 442Hz +/− 30 cents
Built-in speakers:	12 cm dia. ×2 (output: 2W + 2W)
Auto power off function:	6 minutes after last operation
Power source:	3-way AC/DC power source; •AC: 100, 117, 220 or 240V (+/−10V), 50/60 Hz, with optional AC adaptor AD-5 •DC: 6 D size manganese dry batteries.
Power consumption:	7.7W
Dimensions:	938(W) × 320(D) × 92(H) $36^{7}/_{8}$(W) × $12^{5}/_{8}$"(D) × $3^{5}/_{8}$"(H)
Weight:	6.7Kg (14.7 lbs) including batteries
Standard accessories:	6 "D" size batteries, Music Library Piano Scores, Dust cover, Score stand

**Design and specifications are subject to change without notice.*

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (not applicable to other areas).

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

..... reorient the receiving antenna
..... relocate the computer with respect to the receiver
..... move the computer away from the receiver
..... plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.